## SEQUENCE LISTING

<110> Salceda, Susana Macina, Roberto Hu, Ping Recipon, Herve Karra, Kalpana Cafferkey, Robert Liu, Chenghua Sun, Yongming

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

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<150> 60/268,289

<151> 2001-02-13

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Met Ser Ile Tyr Ser Phe Ile Leu Val Lys Asn Ile Arg Gln Ser Arg 1 5 10 15

Gly Arg Phe Lys Ser Glu Lys Lys Lys Lys Lys Lys Lys Lys Ser Ala 20 25 30

Gly Gly Thr Ser Gly Pro Lys Gly Ser Arg Gly Glu Leu Val Ser Arg 35  $\phantom{-}40\phantom{0}$  45

Pro Lys Phe Pro Pro Asn Phe Pro Pro Lys Gly 50

<210> 69

<211> 55

<212> PRT

<213> Homo sapien

<400> 69

Met Thr Ile Leu Asn Tyr Ser Ile Asn Met Arg Cys Trp Leu Lys Ser 1 5 10 15

Phe Ser Arg Leu Leu Met Ser Thr Ser Val Leu Val Phe Leu Gly Thr 20 25 30

Ser Tyr Phe Tyr Leu Gly Phe Trp Pro Tyr Leu Ser Ser Ile Thr Ser 35 40 45

Pro Glu Thr Ser His Gly Asn 50 55

<210> 70

<211> 69

<212> PRT

<213> Homo sapien

<400> 70

Met Ser Val Phe Phe Cys Val Lys Thr Pro Asp Thr Lys Thr His 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Lys Thr Asn Lys Arg Lys Glu Asn Val Ala Arg Ile Leu Val Ser Leu 20 25 30

Thr Val Glu Asp Pro Asp Gln Ala Val Gln Asn Val Ala His Gly Thr 35 40 45

Glu Arg Thr Gly Val Thr Thr Glu Ile Lys Phe Val Gly Leu Gly Val 50 55 60

Val Ala Pro Ser Gly 65

<210> 71

<211> 59

<212> PRT

<213> Homo sapien

<400> 71

Met Leu Ala Asp Ile Gly Val Leu Ile His Met Lys Trp Ile Asp Thr 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Ser Ser Arg His His Thr Ala Val Gln Ser Ile Gln Gly Arg Glu Ala 20 25 30

Thr Ser Arg Leu Thr Thr Phe Leu Ala Gly Ser Gly Glu Leu Cys Pro 35 40 45

Arg Lys Pro Thr Arg Arg Ser Gly Thr Glu Glu 50

<210> 72

<211> 50

<212> PRT

<213> Homo sapien

<400> 72

Met Phe Cys Ser Glu Asn Thr Leu Pro Gln Asp Ile Leu Gln Leu Ser 1 5 10 15

Tyr Cys Ile Gln Leu Ser Ala Gln Val Leu Thr Asp Glu Thr Cys His  $20 \hspace{1cm} 25 \hspace{1cm} 30$ 

Pro Tyr Ser Thr Pro Cys Ser Ala Leu Leu Asn Ser Asn Ala His Met 35 40 45

```
Ala Pro
50
```

<210> 73

<211> 74

<212> PRT

<213> Homo sapien

<400> 73

Met Lys Gln Arg Ile Ser Lys Glu Thr Thr Lys Asp Ile Gly Asn Ser 1 5 10 15

Gln Lys Pro His Ala Asp Ala Glu Leu Gly Val Lys Asp Cys His Thr 20 25 30

Val Ser Asn Cys Arg Gly Val Cys His Ile Asp Ala Phe His Thr Leu 35 40 45

Glu Val Ala Arg Ala Ser Trp Val Thr Leu Pro Gln Arg Lys Asp Arg 50  $\,$  55  $\,$  60

Cys Val Pro Gly Gln Cys Arg Gly Glu Met 65 70

<210> 74

<211> 133

<212> PRT

<213> Homo sapien

<400> 74

Met Lys Ser Gln Glu Arg Met As<br/>n Ser Cys Asp Gln Leu Gln Lys Thr 1 5 10 15

Gln Ala Asp Ser Ile Leu Arg Asp Thr Leu Tyr His Phe Gly Arg Ser 20 25 30

Pro Thr His Leu Gly Lys Thr Gly Met Ser Leu Arg Gly Ser Gly Arg 35  $\phantom{\bigg|}40\phantom{\bigg|}45\phantom{\bigg|}$ 

Ser Ser Arg Trp Leu Thr Val Val Gly Ala Ala Val Val Val 50 55 60

Ala Ala Asp Ser Gly Phe Ser Ile Arg Gly Phe Ile Ile Ser Arg Thr 65 70 75 80

Ser Ser Trp Ile Arg Val Ser Trp Ile Ser Cys Tyr Ser Asp Leu Trp 85 90 95

Ala Glu Thr Thr Asn Asp Gly Thr Pro Gln Ser Thr Ser Pro Thr Ser 100 105 110

Ala Ile His Thr Leu Ala Pro Arg Arg His Asp Leu Glu Ala His Arg 115 120 125

Leu Ser Gly Tyr His 130

<210> 75

<211> 72

<212> PRT

<213> Homo sapien

<400> 75

Met Trp Ser Val Ser Pro Cys Ser Leu Pro Glu Gln Cys Leu Arg Phe 1 5 10 15

Glu Trp Asp Pro Thr Phe Val Asn Glu Ile Tyr His Leu Pro Arg Gln 20 25 30

Asn Asn Arg Phe Cys Pro Arg Cys Cys Asp Val Thr Met Val Ala Ile 35 40 45

Thr Ala Ile Thr Tyr Asn Tyr Trp His Thr Tyr Asp Glu Ser Arg Thr 50 55 60

Gly Pro Lys Cys Phe Leu Thr Met

<210> 76

<211> 93

<212> PRT

<213> Homo sapien

<400> 76

Pro Leu Thr Ile Leu Ile His Val Leu Phe Gln Lys Val Ser Pro Ile 20 25 30

Lys Trp His Leu Gly Thr Thr Met Ala Gly Ile Ala Leu Ala Met Asn

Asn Asp Leu Arg Ile Ser Pro Gly Lys Ser Pro Arg Gln Ala Leu Pro 65 70 75 80

Leu Leu Leu Ala Leu Gln Cys Glu Val Ser Trp Glu Arg
85 90

<210> 77

<211> 500

<212> PRT

<213> Homo sapien

<400> 77

and print the first of the first the super right for the first first first first first first first first first

Met Lys Cys Thr Ala Arg Glu Trp Leu Arg Val Thr Thr Val Leu Phe 1 5 10 15

Met Ala Arg Ala Ile Pro Ala Met Val Val Pro As<br/>n Ala Thr Leu Leu 20  $\phantom{\bigg|}25\phantom{\bigg|}$  30

Glu Lys Leu Leu Glu Lys Tyr Met Asp Glu Asp Gly Glu Trp Trp Ile 35 40 45

Ala Lys Gln Arg Gly Lys Arg Ala Ile Thr Asp Asn Asp Met Gln Ser 50 60

Ile Leu Asp Leu His Asn Lys Leu Arg Ser Gln Val Tyr Pro Thr Ala 65 70 75 80

Ser Asn Met Glu Tyr Met Thr Trp Asp Val Glu Leu Glu Arg Ser Ala 85 90 95

Glu Ser Trp Ala Glu Ser Cys Leu Trp Glu His Gly Pro Ala Ser Leu 100 105 110

Leu Pro Ser Ile Gly Gln Asn Leu Gly Ala His Trp Gly Arg Tyr Arg 115 120 125

Pro Pro Thr Phe His Val Gln Ser Trp Tyr Asp Glu Val Lys Asp Phe 130 135 140

Ser Tyr Pro Tyr Glu His Glu Cys Asn Pro Tyr Cys Pro Phe Arg Cys

the state of the s

A WA

Ser Gly Pro Val Cys Thr His Tyr Thr Gln Val Val Trp Ala Thr Ser 165 170 175

Asn Arg Ile Gly Cys Ala Ile Asn Leu Cys His Asn Met Asn Ile Trp 180 185 190

Gly Gln Ile Trp Pro Lys Ala Val Tyr Leu Val Cys Asn Tyr Ser Pro 195 200 205

Lys Gly Asn Trp Trp Gly His Ala Pro Tyr Lys His Gly Arg Pro Cys 210 220

Ser Ala Cys Pro Pro Ser Phe Gly Gly Cys Arg Glu Asn Leu Cys 225 230 235 240

Tyr Lys Glu Gly Ser Asp Arg Tyr Tyr Pro Pro Arg Glu Glu Glu Thr \$245\$ \$250\$

Asn Glu Ile Glu Arg Gln Gln Ser Gln Val His Asp Thr His Val Arg
260 265 270

Thr Arg Ser Asp Asp Ser Ser Arg Asn Glu Val Ile Ser Ala Gln Gln 275 280 285

Met Ser Gln Ile Val Ser Cys Glu Val Arg Leu Arg Asp Gln Cys Lys 290 295 300

Gly Thr Thr Cys Asn Arg Tyr Glu Cys Pro Ala Gly Cys Leu Asp Ser 305 310 315

Lys Ala Lys Val Ile Gly Ser Val His Tyr Glu Met Gln Ser Ser Ile 325 330 335

Cys Arg Ala Ala Ile His Tyr Gly Ile Ile Asp Asn Asp Gly Gly Trp 340 345

Val Asp Ile Thr Arg Gln Gly Arg Lys His Tyr Phe Ile Lys Ser Asn 355 360 365

Arg Asn Gly Ile Gln Thr Ile Gly Lys Tyr Gln Ser Ala Asn Ser Phe 370 375 380

Thr Val Ser Lys Val Thr Val Gln Ala Val Thr Cys Glu Thr Thr Val 385 390

Glu Gln Leu Cys Pro Phe His Lys Pro Ala Ser His Cys Pro Arg Val 410

Tyr Cys Pro Arg Asn Cys Met Gln Ala Asn Pro His Tyr Ala Arg Val

Ile Gly Thr Arg Val Tyr Ser Asp Leu Ser Ser Ile Cys Arg Ala Ala

Val His Ala Gly Val Val Arg Asn His Gly Gly Tyr Val Asp Val Met

Pro Val Asp Lys Arg Lys Thr Tyr Ile Ala Ser Phe Gln Asn Gly Ile 470 475

Phe Ser Glu Ser Leu Gln Asn Pro Pro Gly Gly Lys Ala Phe Arg Val

Phe Ala Val Val 500

<210> 78

<211> 51

<212> PRT

<213> Homo sapien

<400> 78

Met Val Thr Thr Gln Asn Leu Arg Leu Thr Ile Val Glu Val Arg Gly 10

Gln Gly Ala Gly Arg Ala Gly Ser Phe Leu Ser Ser Ile Met Gly Ala

Ala Gly Arg Ile Gln Phe Leu Ala Gly Leu Gly Arg Arg Ser Pro Val

Pro Ala Ala 50

<210> 79

<211> 50 <212> PRT <213> Homo sapien

<400> 79

Met Val Phe Tyr Tyr Tyr Tyr Gly Phe Lys Lys Ser Asn Phe Ile

Ser Phe Cys Lys Glu Leu Ser Asn Ile Leu Tyr Arg Phe Cys Glu Arg 25

Thr Tyr Phe Leu Thr Val Ile Phe Ile Ser Phe Lys Ile Phe Val Ser

His Leu 50

<210> 80 <211> 229 <212> PRT

<213> Homo sapien

<400> 80

Met Ala Glu Glu Met Glu Ser Ser Leu Glu Ala Ser Phe Ser Ser

Gly Ala Val Ser Gly Ala Ser Gly Phe Leu Pro Pro Ala Arg Ser Arg 2.5 20

Ile Phe Lys Ile Ile Val Ile Gly Asp Ser Asn Val Gly Lys Thr Cys

Leu Thr Tyr Arg Phe Cys Ala Gly Arg Phe Pro Asp Arg Thr Glu Ala 50

Thr Ile Gly Val Asp Phe Arg Glu Arg Ala Val Glu Ile Asp Gly Glu

Arg Ile Lys Ile Gln Leu Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg

Lys Ser Met Val Gln His Tyr Tyr Arg Asn Val His Ala Val Val Phe 105 100

Val Tyr Asp Met Thr Asn Met Ala Ser Phe His Ser Leu Pro Ser Trp 120

Ile Glu Glu Cys Lys Gln His Leu Leu Ala Asn Asp Ile Pro Arg Ile

Leu Val Gly Asn Lys Cys Asp Leu Arg Ser Ala Ile Gln Val Pro Thr 155

Asp Leu Ala Gln Lys Phe Ala Asp Thr His Ser Met Pro Leu Phe Glu 170

Thr Ser Ala Lys Asn Pro Asn Asp Asn Asp His Val Glu Ala Ile Phe 185 180

Met Thr Leu Ala His Lys Leu Lys Ser His Lys Pro Leu Met Leu Ser 195 200 205

Gln Pro Pro Asp Asn Gly Ile Ile Leu Lys Pro Glu Pro Lys Pro Ala 215

Met Thr Cys Trp Cys 225

<210> 81

The Harm the Harm that the He man agent to the first find then the first took after

n,

<211> 42 <212> PRT <213> Homo sapien

<400> 81

Met Asn Val Phe Lys Ile Tyr Asn Arg Thr Gln Ser Gly Arg Val Phe

Phe Gly Gly Arg Gly Leu Phe Ser Asn Ser Arg Trp His Ile Ser Gly 20 25

Gln Gln Tyr Phe Leu Thr His Ser Asn Gln

<210> 82

<211> 56 <212> PRT <213> Homo sapien

<400> 82

Met Tyr Leu Lys Glu Lys Tyr Pro Asp Leu Lys Pro Thr Ala Asp Val 5

Ala Asn Phe His Thr Thr Ala Gly His Gly Ser Leu Leu Thr Thr His 20 25

Cys His Leu Arg Leu Cys Leu Cys Phe Ile Gl<br/>n Arg Glu Arg Gly Gly 35  $\phantom{000}40\phantom{000}$  45

Leu Lys Gly Met Leu Pro Gly Gly 50 55

<210> 83

<211> 72

<212> PRT

<213> Homo sapien

<400> 83

Met Leu Ser Pro Phe Leu Leu Ile Asn Asn Leu Tyr Tyr Lys Lys 1 5 10 15

Phe Pro Gly Glu Trp Val Thr Arg Ser Gln Phe His Thr Phe Ala 35 40 45

Arg Gln Gln Thr Gly Glu Glu Ala Gly Pro Arg Arg Glu Ala Arg Gln 50 60

Glu Gln Ala His Arg Glu Thr Glu 65 70

<210> 84

<211> 27

<212> PRT

<213> Homo sapien

<400> 84

Met His Val Glu Arg Arg Ser Val Met Asp Ala Trp Ser Arg Arg Gly 1 5 10 15

Ala Gly Lys Tyr Thr Asp Ile Lys Asp Gln Ile 20 25

<210> 85

<211> 292

<212> PRT

<213> Homo sapien

<400> 85

Met Asn Arg Phe Gly Thr Arg Leu Val Gly Ala Thr Ala Thr Ser Ser 1 10 15

Pro Pro Pro Lys Ala Arg Ser Asn Glu Asn Leu Asp Lys Ile Asp Met 20 25 30

Ser Leu Asp Asp Ile Ile Lys Leu Asn Arg Lys Glu Gly Lys Lys Gln 35 40 45

Asn Phe Pro Arg Leu Asn Arg Arg Leu Leu Gln Gln Ser Gly Ala Gln 50  $\,$ 

Gln Phe Arg Met Arg Val Arg Trp Gly Ile Gln Gln Asn Ser Gly Phe 65 70 75 80

Gly Lys Thr Ser Leu Asn Arg Arg Gly Arg Val Met Pro Gly Lys Arg 85 90 95

Arg Pro Asn Gly Val Ile Thr Gly Leu Ala Ala Arg Lys Thr Thr Gly 100 105 110

Ile Arg Lys Gly Ile Ser Pro Met Asn Arg Pro Pro Leu Ser Asp Lys 115 120 125

Asn Ile Glu Gln Tyr Phe Pro Val Leu Lys Arg Lys Ala Asn Leu Leu 130 135 140

Arg Gln Asn Glu Gly Gln Arg Lys Pro Val Ala Val Leu Lys Arg Pro 145 150 155

Ser Gln Leu Ser Arg Lys Asn Asn Ile Pro Ala Asn Phe Thr Arg Ser 165 170 175

Gly Asn Lys Leu Asn His Gln Lys Asp Thr Arg Gln Ala Thr Phe Leu 180 185 190

Phe Arg Arg Gly Leu Lys Val Gln Ala Gln Leu Asn Thr Glu Gln Leu 195 200 205

Leu Asp Asp Val Val Ala Lys Arg Thr Arg Gln Trp Arg Thr Ser Thr 210 215 220

Thr Asn Gly Gly Ile Leu Thr Val Ser Ile Asp Asn Pro Gly Ala Val 225 230 235 240

Gln Cys Pro Val Thr Gln Lys Pro Arg Leu Thr Arg Thr Ala Val Pro \$245\$ \$250\$

Ser Phe Leu Thr Lys Arg Glu Gln Ser Asp Val Lys Lys Val Pro Lys 260 265 270

Gly Val Pro Leu Gln Phe Asp Ile Asn Ser Val Gly Lys Gln Thr Arg 275 280 285

Ile Thr Leu Lys 290

<210> 86

<211> 34

<212> PRT

<213> Homo sapien

<400> 86

Met Val Phe Lys Glu Leu Ser Val Leu Pro Arg Cys Phe Trp Gly Ser 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Pro Val Phe His Ser Val Ile Pro Phe Lys Arg Leu Ser Lys Ser Leu 20 25 30

Phe Asn

<210> 87

<211> 26

<212> PRT

<213> Homo sapien

<400> 87

Met His Thr Phe Thr Gly Lys His Asn Ser Phe Ser Leu Arg Lys Asn 1 5 10 15

Ala Glu Tyr Leu Leu Gln Leu Arg Lys Ile 20 25

<210> 88

<211> 129

<212> PRT

<213> Homo sapien

<400> 88

His Met Phe Glu Asp Phe Ser Phe Pro Phe Ala Ile Phe Leu Phe Phe

Leu Arg Arg Arg Ser Ala Leu Thr Pro Arg Leu Glu Ala Ser Gly Ala 20 25 30

Ile Leu Ala Tyr Cys Asn Leu His Pro Pro Gly Ser Ser Asp Ser Pro

Ala Ser Ala Ser Gly Val Ala Gly Ile Thr Gly Ala Arg His His Val 50 60

Arg Leu Ile Phe Val Phe Ser Val Glu Thr Gly Phe Cys Tyr Val Gly 65 70 75 80

Gln Ala Gly Leu Lys Leu Thr Ser Ser Asp Pro Pro Ala Ser Ala 85 90 95

Ile Phe Leu Asn Cys Asn Lys Tyr Ser Ala Phe Phe Glu Ser Leu Tyr 115 120 125

Leu

the light of the sound of the light of the l

The House

<210> 89

<211> 15

<212> PRT

<213> Homo sapien

<400> 89

Met Ala Thr Leu Ala Gly Tyr Phe Leu Ala Lys Phe Leu Leu Arg 1 5 10 15

<210> 90

<211> 71

<212> PRT

<213> Homo sapien

<400> 90

Met Lys His Gly Ser Phe Tyr Phe Thr Val Ser Asn Leu Ile Ala Ser 1 5 10 15

His Leu Lys Ser Ala Lys Ile Glu Leu Pro Lys Lys Cys Tyr Met Pro 20 25 30

Lys Gly Ala His Asn Tyr Leu Met Ala Lys Leu Ile Lys Leu Thr Ser 35 40 45

Pro Lys Ser Asp Ser Arg Asp Leu Leu Cys Pro Ser Leu Trp Cys Phe 50 55

Phe Ala Leu His Ile Cys Phe

<210> 91

<211> 35

<212> PRT

<213> Homo sapien

<400> 91

Met Leu Ala Arg Leu Leu Leu Met Ile Lys Ser Leu Asp Pro His Thr 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Arg Phe Ala Met Val Thr Leu Ser Arg Thr Glu Ile Pro Leu Val Leu 20 25 30

Tyr Lys Arg 35

<210> 92

<211> 48

<212> PRT

<213> Homo sapien

<400> 92

Met Phe Thr Ser Thr Thr Leu Asn Gln Leu Leu Ser Ile Leu Tyr Ile 1 5 10 15

Phe Tyr Ser Ile Phe Phe Ser Asn Phe Leu His Phe Pro Met Ser Leu 20 25 30

Lys Phe Ser Val Asn Val Asn Phe Lys Asn Cys Thr Val Trp Leu Phe 35 40 45

<210> 93

<211> 67

<212> PRT

<213> Homo sapien

<400> 93

Met Cys Met Ser Arg Phe Glu Ser Leu Gly Cys Arg Phe Val Leu Pro

Trp Gln Arg Lys Arg Ser Leu Trp Gly Glu Leu Phe Leu Val Ile

Ser Gly Lys Arg His Ile Glu Thr Leu Tyr Glu Trp Gly Phe Cys Phe

Lys Cys Trp Lys Ile Arg Ala Gly Ile Thr Cys Leu Gln Val Val Pro

Ser Leu Val

<210> 94 <211> 145

<212> PRT

<213> Homo sapien

<400> 94

Met Leu Pro Ala Gly Thr Leu Val Gly Ala Gly Leu Gly Val Pro His

Pro Gln Thr Pro Cys Phe Leu Gln Gly His Trp Trp Val Leu Ala Trp 25

Gly Phe Leu Thr His Lys His His Ala Ser Cys Arg Asp Val Asp Gly

Arg Trp Pro Gly Arg Ser Ser His Thr Thr Ala Met Leu Pro Ala Gly

Thr Leu Val Gly Ala Gly Leu Gly Leu Pro His Ile Gln Thr Pro Cys

Phe Leu Gln Gly Arg Trp Cys Ala Leu Ala Trp Gly Phe Leu Thr Tyr

Lys Pro His Ala Ser Tyr Arg Ala Arg Trp Trp Thr Ala Gly Pro Glu 105 100

Ala Ser Ser His Thr Ile Ala Ile Leu Pro His Gly Thr Leu Ala Ala 115

Arg Thr Gly Leu Gly Leu Pro His Pro Gln Thr Pro Cys Leu Pro Ile 135

Asp 145

<210> 95

<211> 48 <212> PRT <213> Homo sapien

<400> 95

Met Gly Val Tyr Ser Gly Ala Gln Asn Ile Pro Thr His Asn Thr Ile 5

Ser Ser Gly Thr Ala Lys Lys Gly Glu Asn Arg Lys Gln Glu Asn Arg

Lys Lys Lys Arg Lys Lys Lys Asn Arg Lys Lys Lys Asn Glu

<210> 96

<211> 71 <212> PRT

<213> Homo sapien

<400> 96

Met Ala Gly Gly Ala Lys Glu Leu Pro Arg Ala Ser Phe Ile Arg Ala

Leu Ile Leu Cys Lys Arg Ala Glu Ser Ser Gly Pro Asn Arg Phe Pro

Lys Leu Leu Thr Leu Gly Met Arg Val Gln Tyr Thr Asn Phe Trp Gly 35 40

Thr Gln Thr Phe Arg Pro Gln Gln Tyr Pro Asn Tyr Ile Arg Asp Leu

Lys Ser Thr Thr Lys Asn Lys 70

<210> 97

<211> 291

<212> PRT

<213> Homo sapien

<400> 97

Ala Arg Glu Glu Ala Gln Arg Ser Ala Gln Glu Arg Lys Glu Arg Leu 20 25 30

Arg Arg Ala Leu Glu Glu Asn Arg Leu Ile Pro Thr Glu Leu Arg Arg 35 40 45

Glu Ala Leu Ala Leu Gln Gly Ser Leu Glu Phe Asp Asp Ala Gly Gly 50 60

Glu Gly Val Thr Ser His Val Asp Asp Glu Tyr Arg Trp Ala Gly Val 65 70 75 80

Glu Asp Pro Lys Val Met Ile Thr Thr Ser Arg Asp Pro Ser Ser Arg 85 90 95

Leu Lys Met Phe Ala Lys Glu Leu Lys Leu Val Phe Pro Gly Ala Gln 100 105 110

Arg Met Asn Arg Gly Arg His Glu Val Gly Ala Leu Val Arg Ala Cys 115 120 125

Lys Ala Asn Gly Val Thr Asp Leu Leu Val Val His Glu His Arg Gly 130 135 140

Thr Pro Val Gly Leu Ile Val Ser His Leu Pro Phe Gly Pro Thr Ala 145 150 155 160

Tyr Phe Thr Leu Cys Asn Val Val Met Arg His Asp Ile Pro Asp Leu 165 170 175

Gly Thr Met Ser Glu Ala Lys Pro His Leu Ile Thr His Gly Phe Ser 180 185 190

Ser Arg Leu Gly Lys Arg Val Ser Asp Ile Leu Arg Tyr Leu Phe Pro 195 200 205

Val Pro Lys Asp Asp Ser His Arg Val Ile Thr Phe Ala Asn Gln Asp 210 215 220

Asp Tyr Ile Ser Phe Arg His His Val Tyr Lys Lys Thr Asp His Arg

235

240

Asn Val Glu Leu Thr Glu Val Gly Pro Arg Phe Glu Leu Lys Leu Tyr 245 250 255

Met Ile Arg Leu Gly Thr Leu Glu Gln Glu Ala Thr Ala Asp Val Glu 265

Trp Arg Trp His Pro Tyr Thr Asn Thr Ala Arg Lys Arg Val Phe Leu 280 275

Ser Thr Glu 290

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<210> 98 <211> 39 <212> PRT <213> Homo sapien

<400> 98

Met Ser Ile Arg Ala Trp Phe Pro Leu Ser Cys Arg Ala Ala His Val

Met Asp Pro Gly Arg Tyr Trp Thr Pro Gly Met Leu Thr Ala Thr Cys 25 20

Arg Gln Glu Thr Ser Val Gln 35

<210> 99 <211> 174 <212> PRT <213> Homo sapien

<400> 99

Met Ser Phe Lys Arg Glu Gly Asp Asp Trp Ser Gln Leu Asn Val Leu

Lys Lys Arg Arg Val Gly Asp Leu Leu Ala Ser Tyr Ile Pro Glu Asp 20 25

Glu Ala Leu Met Leu Arg Asp Gly Arg Phe Ala Cys Ala Ile Cys Pro 35 40

His Arg Pro Val Leu Asp Thr Leu Ala Met Leu Thr Ala His Arg Ala 50 55

Gly Lys Lys His Leu Ser Ser Lys Leu Gly Gly Arg Arg Asp Gly Glu

Ala Thr Leu Glu Ile Ser Ala His His Ser Trp Cys Tyr Ala Phe Asn

Ser Val Ser Leu Ser Pro Gln Ala Leu Gln Leu Phe Tyr Gly Lys Lys 105 100

Gln Pro Gly Lys Glu Arg Lys Gln Asn Pro Lys His Gln Asn Glu Leu 120

Arg Arg Glu Glu Thr Lys Ala Glu Ala Pro Leu Leu Thr Gln Thr Arg 140

Leu Ile Thr Gln Ser Ala Leu His Arg Ala Pro His Tyr Asn Ser Cys 150

Cys Arg Arg Lys Tyr Arg Tyr Gly Thr Gly Lys Pro Glu Val 165

<210> 100 <211> 50 <212> PRT

<213> Homo sapien

<400> 100

Met Lys Tyr Pro Phe Ile Tyr Asn Tyr Phe Cys Leu Lys His Val Ser

Leu Tyr Ile Lys Asn Arg Tyr Phe Cys Phe His Phe Leu Ile Lys Phe

Cys Pro Tyr Phe Arg Ser Glu Lys Asn Gln Tyr Ser Asn Ile Lys Lys 35 40

Gln Glu 50

<210> 101

<211> 18

<212> PRT

<213> Homo sapien

<400> 101

Met Glu Glu Ile Tyr Leu Val Thr Gly Lys Leu Val Ile Gln Ala Leu 10

Glu Gly

<210> 102

<211> 34 <212> PRT <213> Homo sapien

<400> 102

Met Ser Ser Gln Asn Arg Arg Cys Leu Gly Arg Asn Arg Gly Trp Cys

Leu Phe Ser Met Leu Ile Pro Tyr Pro Ser Asp Arg Ile Pro Phe Pro 25

Glu Val

<210> 103

<211> 40 <212> PRT

<213> Homo sapien

<400> 103

Met Asn Lys Gln Ile Tyr Cys Ser Ser Leu Lys Lys Phe Phe Phe Lys

Gln Ser His Ser Val Ala Gln Ala Gly Val Lys Gln Cys Asp Leu Ser

Ser Leu Gln Pro Pro Pro Pro Glu

<210> 104

<211> 990 <212> PRT

<213> Homo sapien

<400> 104

Met Ser Glu Glu Thr Arg Gln Ser Lys Leu Ala Ala Lys Lys Lys

Leu Arg Glu Tyr Gln Gln Arg Asn Ser Pro Gly Val Pro Thr Gly Ala

Lys Lys Lys Lys Ile Lys Asn Gly Ser Asn Pro Glu Thr Thr

Asp Leu Ala Ser Arg Leu Gln Tyr Ser Arg Arg Val Gly Glu Leu

Glu Arg Ala Leu Ser Ala Val Ser Thr Gln Gln Lys Lys Ala Asp Arg 260 265 270

Tyr Asn Lys Glu Leu Thr Lys Glu Arg Asp Ala Leu Arg Leu Glu Leu 275 280 285

Tyr Lys Asn Thr Gln Ser Asn Glu Asp Leu Lys Gln Glu Lys Ser Glu 290 295 300

Leu Glu Glu Lys Leu Arg Val Leu Val Thr Glu Lys Ala Gly Met Gln 305 310 315 320

Leu Asn Leu Glu Glu Leu Gln Lys Lys Leu Glu Met Thr Glu Leu Leu 325 330 335

Leu Gln Gln Phe Ser Ser Arg Cys Glu Ala Pro Asp Ala Asn Gln Gln 340 345 350

Leu Gln Gln Ala Met Glu Glu Arg Ala Gln Leu Glu Ala His Leu Gly 355 360 365

Gln Val Met Glu Ser Val Arg Gln Leu Gln Met Glu Arg Asp Lys Tyr 370 375 380

Ala Glu Asn Leu Lys Gly Glu Ser Ala Met Trp Arg Gln Arg Met Gln 385 390 395 400

Gln Met Ser Glu Gln Val His Thr Leu Arg Glu Glu Lys Glu Cys Ser 405 410 415

Met Ser Arg Val Glu Glu Leu Glu Thr Ser Leu Ala Glu Leu Arg Asn \$420\$

Gln Met Ala Glu Pro Pro Pro Pro Glu Pro Pro Ala Gly Pro Ser Glu 435 440 445

Val Glu Gln Gln Leu Gln Ala Glu Ala Glu His Leu Arg Lys Glu Leu 450 455 460

Glu Gly Leu Ala Gly Gln Leu Gln Ala Gln Val Gln Asp Asn Glu Gly 475 475 480

Leu Ser Arg Leu Asn Arg Glu Gln Glu Glu Arg Leu Leu Glu Leu Glu 485 490 495

Arg Ala Ala Glu Leu Trp Gly Glu Gln Ala Glu Ala Arg Arg Gln Ile 500 505 510

Leu Glu Thr Met Gln Asn Asp Arg Thr Thr Ile Ser Arg Ala Leu Ser 515 520 525

Gln Asn Arg Glu Leu Lys Glu Gln Leu Ala Glu Leu Gln Ser Gly Phe 530 540

Val Lys Leu Thr Asn Glu Asn Met Glu Ile Thr Ser Ala Leu Gln Ser 545 550 555

Glu Gln His Val Lys Arg Glu Leu Gly Lys Lys Leu Gly Glu Leu Gln 565 570 575

Glu Lys Leu Ser Glu Leu Lys Glu Thr Val Glu Leu Lys Ser Gln Glu 580 \$585\$

Ala Gln Ser Leu Gln Gln Gln Arg Asp Gln Tyr Leu Gly His Leu Gln 595  $\,$  600  $\,$  605

Gln Tyr Val Ala Ala Tyr Gln Gln Leu Thr Ser Glu Lys Glu Val Leu 610 620

His Asn Gln Leu Leu Gln Thr Gln Leu Val Asp Gln Leu Gln Gln 625 630 635 640

Gln Glu Ala Gln Gly Lys Ala Val Ala Glu Met Ala Arg Gln Glu Leu \$645\$ \$650\$ \$655

Gln Glu Thr Gln Glu Arg Leu Glu Ala Ala Thr Gln Gln Asn Gln Gln 660 665 670

Leu Arg Ala Gln Leu Ser Leu Met Ala His Pro Gly Glu Gly Asp Gly 675 680 685

Val Ala Val Pro Gln Pro Met Pro Ser Ile Pro Glu Asp Leu Glu Ser 705 710 715 720

Arg Glu Ala Met Val Ala Phe Phe Asn Ser Ala Val Ala Ser Ala Glu 725 730 735

Glu Glu Gln Ala Arg Leu Arg Gly Gln Leu Lys Glu Gln Arg Val Arg 740 745 750

Cys Arg Arg Leu Ala His Leu Leu Ala Ser Ala Gln Lys Glu Pro Glu 755 760 765

Ala Ala Pro Ala Pro Gly Thr Gly Gly Asp Ser Val Cys Gly Glu
770 780

Thr His Arg Ala Leu Gln Gly Ala Met Glu Lys Leu Gln Ser Arg Phe 785 790 795 800

Met Glu Leu Met Gln Glu Lys Ala Asp Leu Lys Glu Arg Val Glu Glu 815

Leu Glu His Arg Cys Ile Gln Leu Ser Gly Glu Thr Asp Thr Ile Gly 820 825 830

Glu Tyr Ile Ala Leu Tyr Gln Ser Gln Arg Ala Val Leu Lys Glu Arg 835 840 845

His Arg Glu Lys Glu Glu Tyr Ile Ser Arg Leu Ala Gln Asp Lys Glu 850 855

Glu Met Lys Val Lys Leu Leu Glu Leu Gln Glu Leu Val Leu Arg Leu 865 870 875 880

Val Gly Asp Arg Asn Glu Trp His Gly Arg Phe Leu Ala Ala Gln 885 890 895

Asn Pro Ala Asp Glu Pro Thr Ser Gly Ala Pro Ala Pro Gln Glu Leu 900 905 910

Gly Ala Ala Asn Gln Gln Gly Asp Leu Cys Glu Val Ser Leu Ala Gly 915 920 925

Ser Val Glu Pro Ala Gln Gly Glu Ala Arg Glu Gly Ser Pro Arg Asp 930 935 940

Asn Pro Thr Ala Gln Gln Ile Met Gln Leu Leu Arg Glu Met Gln Asn 945 950 955 960

Pro Arg Glu Arg Pro Gly Leu Gly Ser Asn Pro Cys Ile Pro Phe Phe

Tyr Arg Ala Asp Glu Asn Asp Glu Val Lys Ile Thr Val Ile 985 980

<210> 105 <211> 91 <212> PRT

<213> Homo sapien

<400> 105

the first that the first that the first that the said

Harry House

Met Ala Pro Ala Val Pro Pro Arg Ala Ser Phe Phe Phe Leu Leu

Phe Phe Ile Phe Leu Leu Phe Lys Phe Tyr Trp Lys Phe Thr Asn 25

Val Leu Gln Thr Ser Val Lys His His Ile His Phe Thr Gly His Gly

Ser Gln Ala Ser Val Gln Asn Ser Leu Trp Gln Ser Pro His Gln Gly 55

Leu Leu Gln Thr Phe Leu Thr Asn Ser Leu Thr Leu Asn Thr Glu His 65 70

Arg Leu Trp Pro Ala Ser Pro Ser Gln Ala Leu 85

<210> 106 <211> 77 <212> PRT

<213> Homo sapien

<400> 106

Met Val Val Gly Gln Thr Pro His Thr Ser Val Leu Gln Lys His Ala 5

Phe Val Cys Glu Lys Pro Gln Pro Ala Pro Thr Ser Val Leu Gln Glu 20 25

Ala Trp Val Leu Gly Glu Glu Ala Pro Gly Gln Arg Pro Pro Ala Ser 35

Leu Gln Glu Ala Trp Gln Leu Tyr Val Arg Lys Pro Arg Pro Ala Pro 50 55

Thr Ser Val Pro Ala Gly Gln Ala Trp Thr Val Asn Gly 65 70 75

<210> 107 <211> 116

<212> PRT

<213> Homo sapien

<400> 107

Met Arg Gly Thr Pro Phe Leu Ser Cys Val Ala Cys Leu Val Cys Ala 1 5 10 15

Ser Thr Leu Leu Phe Leu Ser Leu Ser Ser Leu Lys Met Tyr Asn Lys 20 25 30

Ile Ser Phe Leu Ala Pro Arg Leu Ser Pro Pro Gln Asn Lys Lys Lys 35 40 45

Lys Lys Lys Lys Lys Asn Pro Phe Phe Phe Phe Phe Phe Phe Leu 50 55

Phe Phe Phe Phe Phe Phe Ala His Asn Lys Asn Leu Leu Gly Glu 65 70 75 80

Arg Trp Leu Met Gly Gly Lys Ile Trp Ile Gln Glu Ser Ser Ile Leu
90 95

Ala Leu Ala Leu Ser Pro Asn Pro Pro Ser Leu Pro Glu Pro Arg Gly
100 105 110

Val Ser Pro Cys 115

<210> 108

<211> 46

<212> PRT

<213> Homo sapien

<400> 108

Met Val Thr Leu Leu Phe Ser Glu Pro Leu Leu Arg Ala Ser Gln Asp 1 5 10 15

Ile Met Arg Thr Asp Asn Leu Pro Trp Ser Gln Arg Pro Ser Leu Pro 20 25 30

Leu Ala Arg Met Phe Arg Asp Arg Gln Arg Gly Gln Trp Trp 35 40 45

<210> 109

<211> 55

<212> PRT

<213> Homo sapien

<400> 109

Met Trp Glu Leu Thr Glu Gln Tyr His His Arg Val Asn Lys Leu Trp  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Arg Leu Ser Thr Leu Leu Ser Cys Pro Gln Ala Pro Arg Asn Ile Leu 35 40 45

Ser Pro His Leu Glu Thr Asp 50 55

<210> 110

<211> 876

<212> PRT

<213> Homo sapien

<400> 110

Ala Ser Ala Gly Ala Ala Gly Ser Leu Thr Arg Ser Pro Ser Ser Asp 1 5 10 15

Phe Gln Gly Ala Ser Val Glu Lys Lys Met Ala Gln Val Leu His Val 20 25 30

Pro Ala Pro Phe Pro Gly Thr Pro Gly Pro Ala Ser Pro Pro Ala Phe 35 40 45

Pro Ala Lys Asp Pro Asp Pro Pro Tyr Ser Val Glu Thr Pro Tyr Gly 50 55 60

Tyr Arg Leu Asp Leu Asp Phe Leu Lys Tyr Val Asp Asp Ile Glu Lys 65 70 75 80

Gly His Thr Leu Arg Arg Val Ala Val Gln Arg Arg Pro Arg Leu Ser 85 90 95 Ser Leu Pro Arg Gly Pro Gly Ser Trp Trp Thr Ser Thr Glu Ser Leu 100 105 110

Cys Ser Asn Ala Ser Gly Asp Ser Arg His Ser Ala Tyr Ser Tyr Cys 115 120 125

Gly Arg Gly Phe Tyr Pro Gln Tyr Gly Ala Leu Glu Thr Arg Gly Gly 130 135 140

Phe Asn Pro Arg Val Glu Arg Thr Leu Leu Asp Ala Arg Arg Arg Leu 145 150 155

Glu Asp Gln Ala Ala Thr Pro Thr Gly Leu Gly Ser Leu Thr Pro Ser 165 170 175

Ala Ala Gly Ser Thr Ala Ser Leu Val Gly Val Gly Leu Pro Pro 180 185 190

Thr Pro Arg Ser Ser Gly Leu Ser Thr Pro Val Pro Pro Ser Ala Gly
195 200 205

His Leu Ala His Val Arg Glu Gln Met Ala Gly Ala Leu Arg Lys Leu 210 215 220

Arg Gln Leu Glu Glu Gln Val Lys Leu Ile Pro Val Leu Gln Val Lys 225 230 235 240

Leu Ser Val Leu Gln Glu Glu Lys Arg Gln Leu Thr Val Gln Leu Lys 245 250 255

Ser Gln Lys Phe Leu Gly His Pro Thr Ala Gly Arg Gly Arg Ser Glu 260 265 270

Leu Cys Leu Asp Leu Pro Asp Pro Pro Glu Asp Pro Val Ala Leu Glu 275 280 285

Thr Arg Ser Val Gly Thr Trp Val Arg Glu Arg Asp Leu Gly Met Pro 290 295 300

Asp Gly Glu Ala Ala Leu Ala Ala Lys Val Ala Val Leu Glu Thr Gln 305 310 315 320

Leu Lys Lys Ala Leu Gln Glu Leu Gln Ala Ala Gln Ala Arg Gln Ala 325 330 335

- Asp Pro Gln Pro Gln Ala Trp Pro Pro Pro Asp Ser Pro Val Arg Val 340 345 350
- Asp Thr Val Arg Val Val Glu Gly Pro Arg Glu Val Glu Val Val Ala 355 360 365
- Ser Thr Ala Ala Gly Ala Pro Ala Gln Arg Ala Gln Ser Leu Glu Pro 370 375 380
- Tyr Gly Thr Gly Leu Arg Ala Leu Ala Met Pro Gly Arg Pro Glu Ser 385 390 395 400
- Pro Pro Val Phe Arg Ser Gln Glu Val Val Glu Thr Met Cys Pro Val 405 415
- Pro Ala Ala Ala Thr Ser Asn Val His Met Val Lys Lys Ile Ser Ile 420 425 430
- Thr Glu Arg Ser Cys Asp Gly Ala Ala Gly Leu Pro Glu Val Pro Ala 435 440 445
- Glu Ser Ser Ser Ser Pro Pro Gly Ser Glu Val Ala Ser Leu Thr Gln 450 455 460
- Pro Glu Lys Ser Thr Gly Arg Val Pro Thr Gln Glu Pro Thr His Arg 465 470 475 480
- Glu Pro Thr Arg Gln Ala Ala Ser Gln Glu Ser Glu Glu Ala Gly Gly
  485 490 495
- Thr Gly Gly Pro Pro Ala Gly Val Arg Ser Ile Met Lys Arg Lys Glu 500 505 510
- Glu Val Ala Asp Pro Thr Ala His Arg Arg Ser Leu Gln Phe Val Gly 515 520 525
- Val Asn Gly Gly Tyr Glu Ser Ser Ser Glu Asp Ser Ser Thr Ala Glu 530 535 540
- Asn Ile Ser Asp Asn Asp Ser Thr Glu Asn Glu Ala Pro Glu Pro Arg 545 550 555 560
- Glu Arg Val Pro Ser Val Ala Glu Ala Pro Gln Leu Arg Pro Ala Gly 565 570 575

Thr Ala Ala Lys Thr Ser Arg Gln Glu Cys Gln Leu Ser Arg Glu 580 585 590

Ser Gln His Ile Pro Thr Ala Glu Gly Ala Ser Gly Ser Asn Thr Glu 595 600 605

Glu Glu Ile Arg Met Glu Leu Ser Pro Asp Leu Ile Ser Ala Cys Leu 610 615 620

Ala Leu Glu Lys Tyr Leu Asp Asn Pro Asn Ala Leu Thr Glu Arg Glu 625 630 635 640

Leu Lys Val Ala Tyr Thr Thr Val Leu Gln Glu Trp Leu Arg Leu Ala 645  $\phantom{0}650$   $\phantom{0}655$ 

Cys Arg Ser Asp Ala His Pro Glu Leu Val Arg Arg His Leu Val Thr 660 665 670

Phe Arg Ala Met Ser Ala Arg Leu Leu Asp Tyr Val Val Asn Ile Ala 675 680 685

Asp Ser Asn Gly Asn Thr Ala Leu His Tyr Ser Val Ser His Ala Asn 690 695 700

Phe Pro Val Val Gln Gln Leu Leu Asp Ser Gly Val Cys Lys Val Asp 705 710 715 720

Lys Gln Asn Arg Ala Gly Tyr Ser Pro Ile Met Leu Thr Ala Leu Ala 725 730 735

Thr Leu Lys Thr Gln Asp Asp Ile Glu Thr Val Leu Gln Leu Phe Arg 740 745 750

Leu Gly Asn Ile Asn Ala Lys Ala Ser Gln Ala Gly Gln Thr Ala Leu 755 760 765

Met Leu Ala Val Ser His Gly Arg Val Asp Val Val Lys Ala Leu Leu 770 780

Ala Cys Glu Ala Asp Val Asn Val Gln Asp Asp Asp Gly Ser Thr Ala 785 790 795 800

Leu Met Cys Ala Cys Glu His Gly His Lys Glu Ile Ala Gly Leu Leu

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Leu Ala Val Pro Ser Cys Asp Ile Ser Leu Thr Asp Arg Asp Gly Ser 820 825 830

Thr Ala Leu Met Val Ala Leu Asp Ala Gly Gln Ser Glu Ile Ala Ser 835 840 845

Met Leu Tyr Ser Arg Met Asn Ile Lys Cys Ser Phe Ala Pro Met Ser 850 855 860

Asp Asp Glu Ser Pro Thr Ser Ser Ser Ala Glu Glu 865 870 875